

Title of Invention: Multi-Axes Tool Compensation -- 3D and 5-axis real-time interactive tool compensation inside the CNC machine tool controller.

Inventor: Gary John Corey

Inventor's Phone No.: (909) 674-8100

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CNC Machine Tool Parameters Ver 12

Tool Parameters							Tool Definitions (Spindle Mode Only)				
Size	Flare	Vert	Height	Wear	Custom1	Custom2	Corner radius	Bottom angle	Side angle	Length	Type
1	0.25	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	3.0	0
2	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
3	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
4	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
5	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
6	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
7	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
8	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
9	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0
10	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0

Machine Offset					
FFA	GB	BBB	BBZ	GBZ	GBZ
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0

General Setup

☐ On Handwheel Z-Spindle Feed Mode

☐ Back G-code Offset (Speed Feed)

☐ Graphics Scale (Wireframe)

0.001 Tolerance (inch/mm conversion)

7 Back Size Offset

TeachX Teach File Name (No Path)

Teach File Name

☐ Absolute (0)

☐ Incremental (1)

☐ Absolute (2)

Spindle Stop

Spindle Stop 0.0

Spindle Stop 1.0

Buttons: [F5 Tool Simulation] [F6 Tool Edit] [F7 Tool Phone] [F8 Cancel Offset] [F9 Cancel Lock]

FIG 1.

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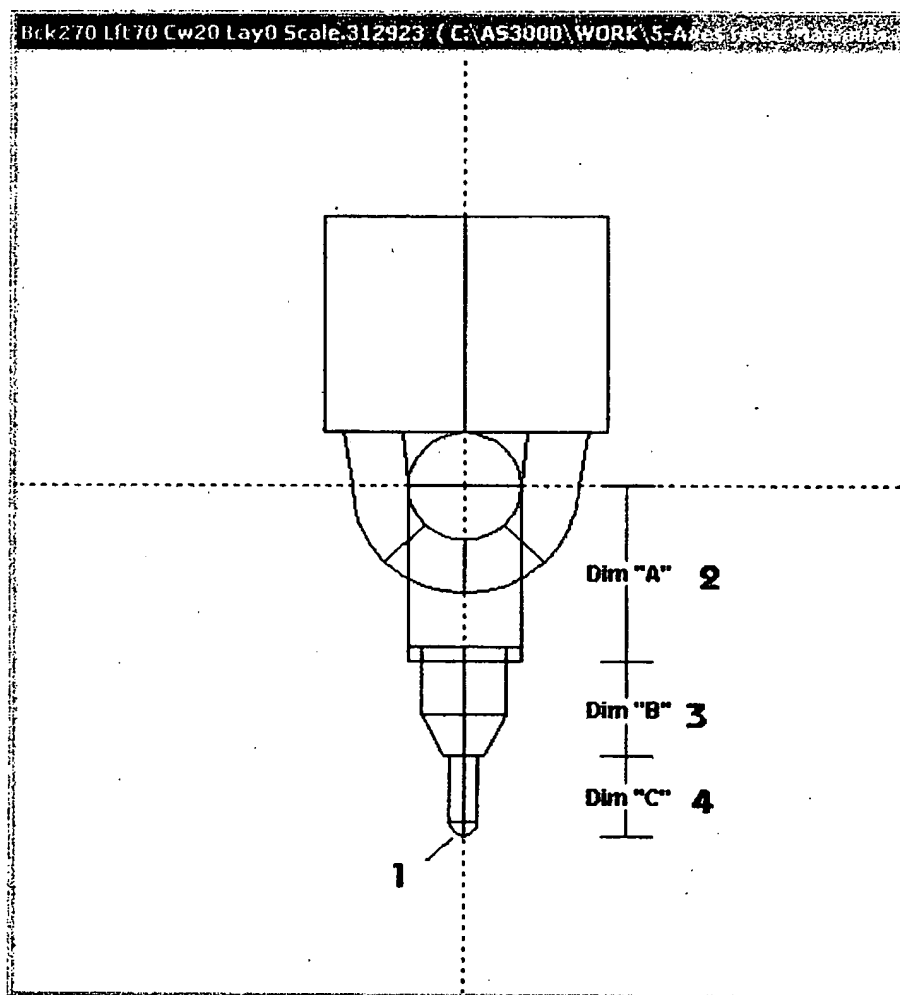


FIG 2.

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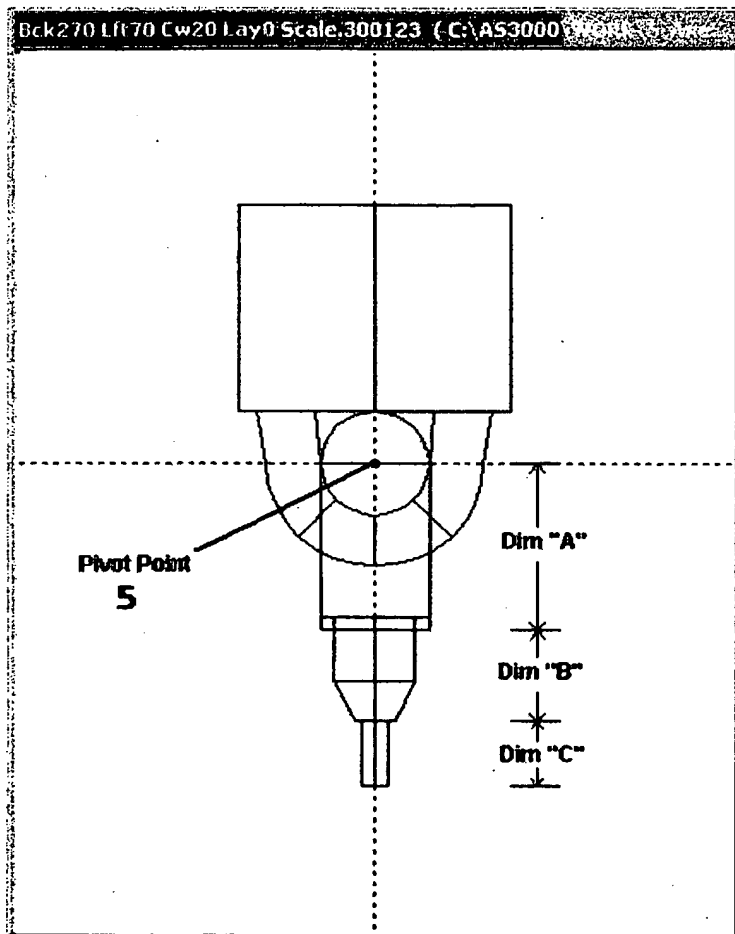


FIG 3.

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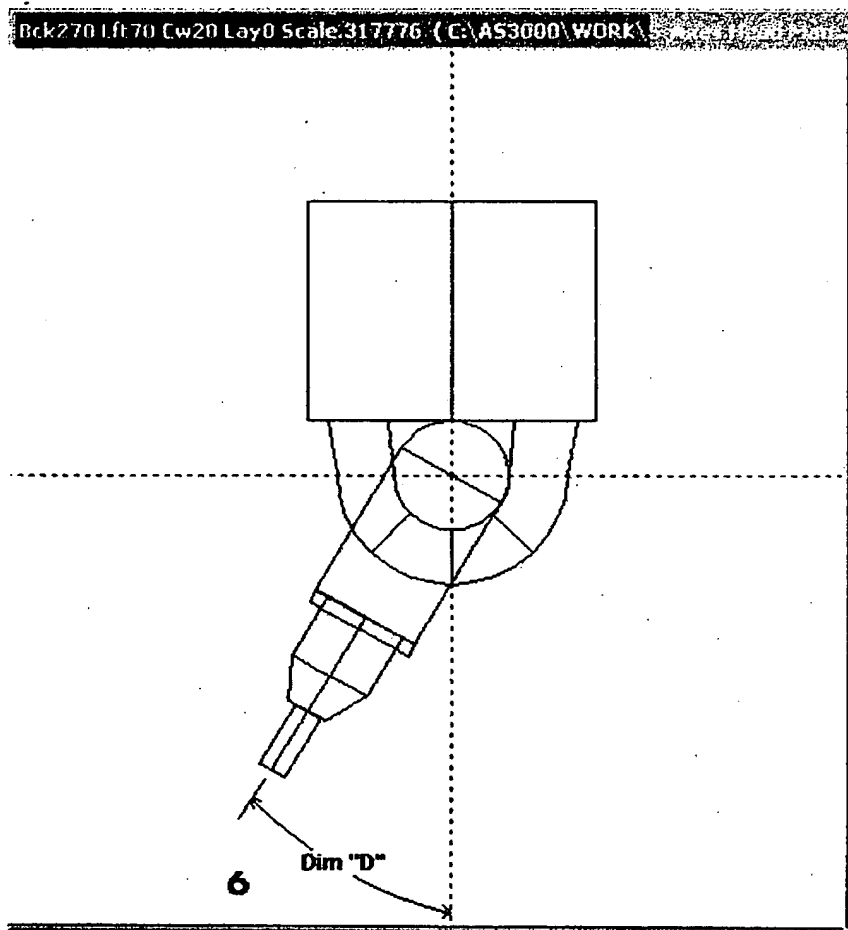


FIG 4.

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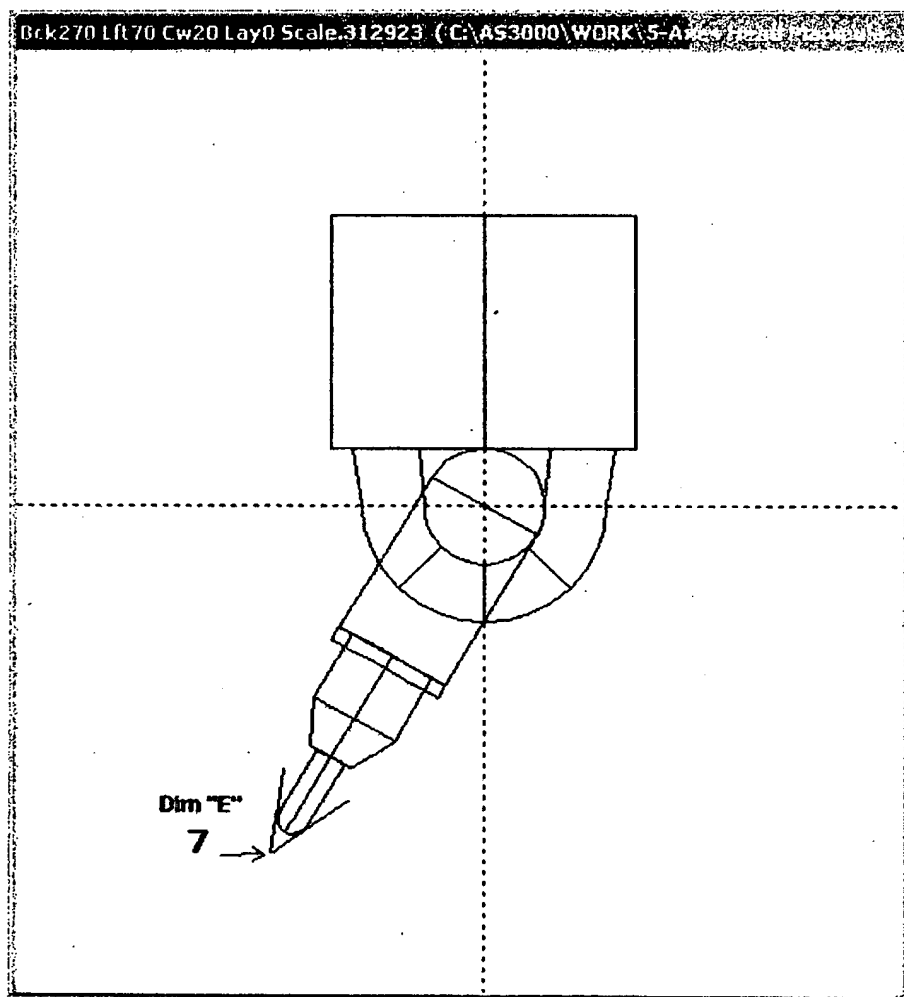


FIG 5.

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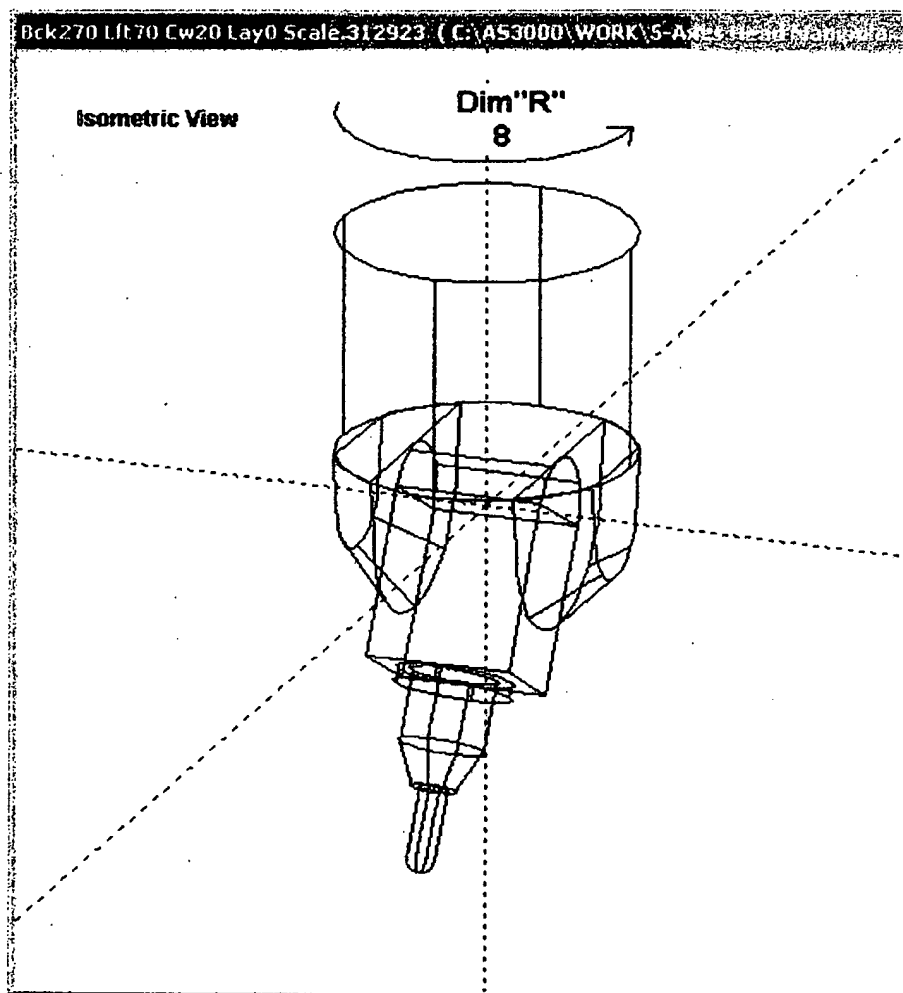


FIG 6.